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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Nallur et al.

Serial No.: 09/910,383

Confirmation No.: 2312

Filed: July 20, 2001

For: "GENE EXPRESSION PROFILING"

Group Art Unit: 1645

Examiner: Unassigned

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, D.C. 20231

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January 17, 2002

Sir:

Pursuant to the requirements of 37 C.F.R. § 1.56, submitted herewith on the accompanying form PTO 1449 is a listing of documents known to the applicants and/or their attorneys. Copies of these documents are enclosed.


Consideration of the cited documents and making the same of record in the prosecution of the above-noted application are respectfully requested.

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SERIAL NO. 09/910,383

Applicant believes that this Information Disclosure Statement is being filed in accordance with 37 C.F.R. § 1.97(b)(3), i.e., before the mailing date of the first Office action on the merits. Therefore, no fee is believed to be due. However, if a fee is required, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-0629.

Respectfully submitted,

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on the date listed below.



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SERIAL NO. 09/910,363

APPLICANT: Nallur

LIST OF INFORMATION CITED BY APPLICANT
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FILING DATE: July 20, 2001

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U.S. PATENT DOCUMENTS

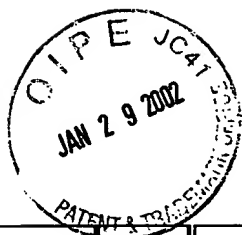
EXAMINER INITIALS		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	6,143,495	11/07/00	Lizardi et al.			
	A2	5,854,033	12/29/98	Lizardi			
	A3	5,719,262	02/17/98	Buchardt et al.			
	A4	5,714,331	02/03/98	Buchardt et al.			
	A5	5,561,255	10/01/96	Sassmannshausen et al.			
	A6	5,539,082	07/23/96	Neilsen et al.			
	A7	5,516,134	05/14/96	Crawford et al.			
	A8	5,489,667	02/06/96	Knipf et al.			
	A9	5,476,427	12/19/95	Fujima			
	A10	5,451,203	09/19/95	Lamb			
	A11	5,367,069	11/22/94	Beck et al.			
	A12	5,264,567	11/23/93	Numata et al.			
	A13	5,198,543	03/30/93	Blanco et al.			
	A14	5,001,050	03/19/91	Blanco et al.			
	A15	4,476,301	10/09/84	Imbach et al.			
	A16	2,264,423	08/29/39	Wingenroth			

FOREIGN PATENT DOCUMENTS

	A17	WO 97/19193	05/29/97	Lizardi et al. (PCT)			
	A18	EP 0439182 B1	07/31/91	Beckman et al.(EP)			

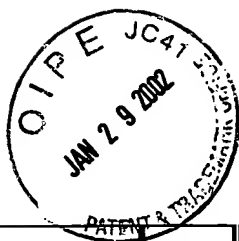
OTHER INFORMATION (Including Author, Title, Date, Pertinent Pages, Etc.)

	A19	Abravaya et al. Detection of point mutations with a modified ligase chain reaction (Gap-LCR). <i>Nucl. Acids Res.</i> 23(4):675-682 (1995)					
	A20	Arnold et al. Assay Formats Involving Acridinium-Ester-Labeled DNA Probes. <i>Clin. Chem.</i> 35(8):1588-1594 (1989)					
	A21	Barany. Genetic Disease Detection and DNA Amplification Using Cloned Thermostable Ligase. <i>Proc. Natl. Acad. Sci. USA</i> 88:189-193 (1991)					
	A22	Birkenmeyer et al. DNA Probe Amplification Methods. <i>J. Virol. Meth.</i> 35:117-126 (1991)					
	A23	Boehmer et al. Herpes Simplex Virus Type 1 ICP8: Helix-Destabilizing Properties. <i>J. Virol.</i> 67(2):711-715 (1993)					
	A24	Bonnet et al. Thermodynamic basis of the enhanced specificity of structured DNA probes. <i>Proc. Natl. Acad. Sci. USA</i> 96(11):6171-6176 (1999)					

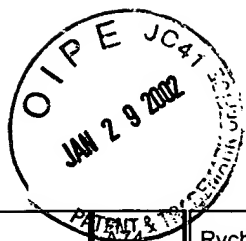


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 JAN 31 2002
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A25	Butler et al. Bacteriophage SP6-specific RNA Polymerase. <i>J. Biol. Chem.</i> 257(10):5772-5778 (1982)
A26	Chatterjee et al. Cloning and Overexpression of the Gene Encoding Bacteriophage T5 DNA Polymerase. <i>Gene</i> 97:13-18 (1991)
A27	Crooke et al. Antisense Research and Applications. <i>CRC Press</i> 16:290-301 (1993)
A28	Crooke et al. Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice. <i>J. Pharmacol. Exp. Ther.</i> 277:923-937 (1996)
A29	Davanloo et al. Cloning and expression of the gene for bacteriophage T7 RNA polymerase. <i>Proc. Natl. Acad. Sci. USA.</i> 81:2035-2039 (1984)
A30	Englisch et al. Chemically Modified Oligonucleotides as Probes and Inhibitors. <i>Angewandte Chemie</i> , International Edition in English 30(6):613-629 (1991)
A31	Ernst et al., "Cyanine dye labeling reagents for sulfhydryl groups," <i>Cytometry</i> , 10:3-10 (1989)
A32	Fire et al. Rolling Replication of Short DNA Circles. <i>Proc Natl. Acad. Sci. USA</i> 92:4641-4645 (1995)
A33	Guo et al., "Direct Fluorescence Analysis of Genetic Polymorphisms by Hybridization with Oligonucleotide Arrays on Glass Supports" <i>Nucl. Acids Res.</i> 22(24):5456-5465 (1994)
A34	Hoeltke et al. Multiple Nucleic Acid Labeling and Rainbow Detection. <i>Anal. Biochem.</i> 207:24-31 (1992)
A35	Hoy et al., "Bromodeoxyuridine/DNA Analysis of Replication in CHO Cells after Exposure to UV Light," <i>Mutat. Res.</i> 290:217-230 (1993)
A36	Hsuih et al. Quantitative detection of HCV RNA using novel ligation-dependent polymerase chain reaction, American Association for the Study of Liver Disease (Abstract) (Chicago, IL, November 3-7 1995)
A37	Itakura et al. Synthesis and Use of Synthetic Oligonucleotides. <i>Ann. Rev. Biochem.</i> 53:323-356 (1984)
A38	Jacobsen et al. The N-Terminal Amino-Acid Sequences of DNA Polymerase I from <i>Escherichia coli</i> and of the Large and the Small Fragments Obtained by a Limited Proteolysis. <i>Eur. J. Biochem.</i> 45:623-627 (1974)
A39	Johnstone et al., Immunocytochemistry In Practice. <i>Blackwell Scientific Publications</i> , Oxford, England 209-216 and 241-242 (1987)
A40	Jung et al. Bacteriophage PRD1 DNA polymerases: Evolution of DNA polymerases. <i>Proc. Natl. Acad. Sci. USA</i> 84:8287-8291 (1987)
A41	Kabanov et al. A new class of antivirals: Antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells. <i>FEBS Lett.</i> 259(2):327-330 (1990)
A42	Kaboord et al. Accessory proteins function as matchmakers in the assembly of the T4 DNA polymerase holoenzyme. <i>Curr. Biol.</i> 5(2):149-157 (1995)
A43	Kalin et al. Evaluation of the ligase chain reaction (LCR) for the detection of point mutations. <i>Mutat. Res.</i> 283(2):119-123 (1992)
A44	Kerhof, "A Comparison of Substrates for Quantifying the Signal from a Nonradiolabeled DNA Probe" <i>Anal. Biochem.</i> , 205:359-364 (1992)
A45	Kessler. The digoxigenin:anti-digoxigenin (DIG) technology- a survey on the concept and realization of a novel bioanalytical indicator system. <i>Mol. Cell. Probes</i> 5:161-205 (1991)
A46	Khrapko et al., "Hybridization of DNA with Oligonucleotides Immobilized in Gel: A Convenient Method for Detecting Single Base Substitutions" <i>Mol. Biol. (Mosk), (USSR)</i> 25(3): 581-591 (1991)
A47	King et al. Bridging the Gap. <i>J. Biol. Chem.</i> 269(18):13061-13064 (1994)
A48	Kong et al. Characterization of a DNA Polymerase from the Hyperthermophile Archaea <i>Thermococcus litoralis</i> . <i>J. Biol. Chem.</i> 268(3):1965-1975 (1993)
A49	Kunkel et al. Rapid and Efficient Site-Specific Mutagenesis without Phenotypic Selection. <i>Meth. Enzymol.</i> 154:367-382 (1987)



A50	Landegren. Molecular mechanics of nucleic acid sequence amplification. <i>Trends Genetics</i> 9(6):199-202 (1993)
A51	Langer et al. Enzymatic synthesis of biotin-labeled polynucleotides: Novel nucleic acid affinity probes," <i>Proc. Natl. Acad. Sci. USA</i> 78(11):6633-6637 (1981)
A52	Lawyer et al. High-Level Expression, Purification, and Enzymatic Characterization of Full-Length <i>Thermus Aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity. <i>PCR Meth. Appl.</i> 2(4):275-287 (1993)
A53	Lesnick et al. Relative Thermodynamic Stability of DNA, RNA, and DNA: RNA Hybrid Duplexes: Relationship with Base Composition and Structure. <i>Biochemistry</i> 34:10807-10815 (1995)
A54	Letsinger et al. Cholesteryl-conjugated oligonucleotides: Synthesis, properties, and activity as inhibitors of replication of human immunodeficiency virus in cell culture. <i>Proc. Natl. Acad. Sci. USA</i> 86:6553-6556 (1989)
A55	Lichter et al. High-Resolution Mapping of Human Chromosome 11 by in Situ Hybridization with Cosmid Clones. <i>Science</i> 247:64-69 (1990)
A56	Lizardi et al. Mutation detection and single-molecule counting using isothermal rolling-circle amplification. <i>Nat. Genet.</i> 19(3):225-232 (July 1998)
A57	Manoharan et al. Oligonucleotide Conjugates: Alteration of the Pharmacokinetic Properties of Antisense Agents. <i>Nucleosides & Nucleotides</i> 14:969-973 (1995)
A58	Manoharan et al. Introduction of a Lipophilic Thioether Tether in the Minor Groove of Nucleic Acids for Antisense Applications. <i>Bioorg. Med. Chem. Let.</i> 3:(12)2765-2770 (1993)
A59	Manoharan et al. Chemical Modifications to Improve Uptake and Bioavailability of Antisense Oligonucleotides. <i>Ann. N.Y. Acad. Sci.</i> 660:306-309 (1992)
A60	Manoharan et al. Lipidic Nucleic Acids. <i>Tetra. Lett.</i> 36(21):3651-3654 (1995)
A61	Manoharan et al. Cholic Acid-Oligonucleotide Conjugates for Antisense Applications. <i>Bioorg. Med. Chem. Let.</i> 4(8):1053-1060 (1994)
A62	Matsumoto et al. Primary structure of bacteriophage M2 DNA polymerase: conserved segments within protein-priming DNA polymerases and DNA polymerase I of <i>Escherichia coli</i> . <i>Gene</i> 84:247-255(1989)
A63	McGraw et al. Sequence-Dependent Oligonucleotide-Target Duplex Stabilities: Rule from empirical Studies with a Set of Twenty-Mers. <i>Biotechniques</i> 8:674-678 (1990)
A64	Mishra et al. Improved leishmanicidal effect of phosphorothioate antisense oligonucleotides by LDL-mediated delivery. <i>Biochim. Biophys. Acta.</i> 1264:229-237 (1995)
A65	Mujumdar et al., "Cyanine dye labeling reagents containing isothiocyanate groups," <i>Cytometry</i> , 10:11-19 (1989)
A66	Narang et al. Chemical Synthesis of Deoxioligonucleotides by the Modified Triester Method. <i>Meth. Enzymol.</i> 65:610-620 (1980)
A67	Nielsen et al. Peptide Nucleic Acid (PNA). A DNA Mimic with a Peptide Backbone. <i>Bioconjug. Chem.</i> 5:3-7 (1994)
A68	Nilsson et al. Padlock Probes: Circularizing Oligonucleotides for Localized DNA Detection. <i>Science</i> , 265:2085-2088 (1994)
A69	Oberhauser et al. Effective incorporation of 2'-o-methyl-oligoribonucleotides into liposomes and enhanced cell association through modification with thiocholesterol. <i>Nucl. Acids Res.</i> 20(3):533-538 (1992)
A70	Panasenko et al. A simple, Three-Step procedure for the Large Scale Purification of DNA Ligase from a Hybrid λ Lysogen Constructed <i>in Vitro</i> . <i>J. Biol. Chem.</i> 253(13):4590-4592 (1978)
A71	Pease et al. Light-Generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis. <i>Proc. Natl. Acad. Sci. USA</i> , 91(11):5022-5026 (1994)
A72	Porstmann et al. Quantitation of 5-Bromo-2-Deoxyuridine Incorporation into DNA: an Enzyme Immunoassay for the Assessment of the Lymphoid Cell Proliferative Response. <i>J. Immunol. Meth.</i> 82:169-179 (1985)
A73	Rigler et al. Differences in the Mechanism of Stimulation of T7 DNA Polymerase by Two Binding Modes of <i>Escherichia coli</i> Single-stranded DNA-binding Protein. <i>J. Biol. Chem</i> 270(15):8910-8919 (1995)



		Rychlik et al. Optimization of the Annealing Temperature for DNA Amplification <i>in vitro</i> . <i>Nucl. Acids Res.</i> 18(21):6409-6412 (1990)
	A75	Saison-Behmoaras et al. Short modified antisense oligonucleotides directed against Ha-ras point mutation induce selective cleavage of the mRNA and inhibit T24 cells proliferation. <i>EMBO J.</i> 10(5):1111-1118 (1991)
	A76	Sanghvi. Chapter 15, Heterocyclic Base Modifications in Nucleic Acids and Their Applications in Antisense Oligonucleotides, <i>Antisense Res. and Appl.</i> p. 273-301 (1993)
	A77	Schenborn et al. A novel transcription property of SP6 and 17 RNA polymerases: dependence on template structure. <i>Nucl. Acids Res.</i> 13(17):6223-6236 (1985)
	A78	Seigel et al. A Novel DNA Helicase from Calf Thymus. <i>J. Biol. Chem.</i> 267(19):13629-13635 (1992)
	A79	Shea et al. Synthesis, hybridization properties and antiviral activity of lipid-oligodeoxynucleotide conjugates. <i>Nucl. Acids Res.</i> 18(13):3777-3783 (1990)
	A80	Skaliter et al. Rolling Circle DNA Replication <i>in vitro</i> by a complex of Herpes Simplex Virus Type 1-encoded Enzymes. <i>Proc. Natl. Acad. Sci. USA</i> 91(22):10665-10669 (1994)
	A81	Speicher et al. Karyotyping human chromosomes by combinatorial multi-fluor FISH. <i>Nat. Genet.</i> 12(4):368-375 (1996)
	A82	Stimpson et al., "Real-Time Detection of DNA Hybridization and Melting on Oligonucleotide Arrays by Using Optical Wave Guides," <i>Proc Natl. Acad. Sci. USA</i> , 92(14):6379-6383 (1995)
	A83	Studier et al. Use of T7 RNA Polymerase to Direct Expression of Cloned Genes. <i>Meth. Enzymol.</i> 185:60-89 (1990)
	A84	Svinarchuk et al. Inhibition of HIV proliferation in MT-4 cells by antisense oligonucleotide conjugated to lipophilic groups. <i>Biochimie.</i> 75:49-54 (1993)
	A85	Syvänen et al. Fast Quantification of nucleic acid hybrids by affinity-based hybrid collection. <i>Nucl. Acids Res.</i> 14(12):5037-5049 (1986)
	A86	Tabor et al. Selective Inactivation of the Exonuclease Activity of Bacteriophage T7 DNA Polymerase by <i>in vitro</i> Mutagenesis. <i>J. Biol. Chem.</i> 264(11):6447-6458 (1989)
	A87	Tabor et al. Selective Oxidation of the Exonuclease Domain of Bacteriophage T7 DNA Polymerase. <i>J. Biol. Chem.</i> 262(32):15330-15333 (1987)
	A88	Thorbjarnardottir et al. Sequence of the DNA Ligase-encoding Gene from <i>Thermus Scotoductus</i> and conserved motifs in DNA Ligases. <i>Gene</i> 151:177-180 (1994)
	A89	Tsurumi et al. Functional Interaction between Epstein-Barr Virus DNA Polymerase Catalytic Subunit and Its Accessory Subunit <i>In Vitro</i> . <i>J. Virol.</i> 67(12):7648-7653 (1993)
	A90	Tyagi et al. Molecular Beacons: Probes that Fluoresce Upon Hybridization. <i>Nat. Biotech.</i> , 14(3):303-308 (1996)
	A91	Waggoner. Covalent Labeling of Proteins and Nucleic Acids with Fluorophores. <i>Meth. Enzymology</i> , 246:362-373 (1995)
	A92	Walker et al. Isothermal <i>in vitro</i> amplification of DNA by a restriction enzyme/DNA polymerase system. <i>Proc. Natl. Acad. Sci. USA</i> 89:392-396 (1992)
	A93	Walker et al. Strand displacement amplification - an isothermal, <i>in vitro</i> DNA amplification technique. <i>Nucl. Acids Res.</i> 20(7):1691-1696 (1992)
	A94	Wansick et al. Fluorescent Labeling of Nascent RNA Reveals Transcription by RNA Polymerase II in Domains Scattered Throughout the Nucleus. <i>J. of Cell Biol.</i> 122(2):283-293 (1993)
	A95	Wiedmann et al. Ligase Chain Reaction (LCR) - Overview and Applications, <i>PCR Methods and Applications</i> , (Cold Spring Harbor Laboratory Press, Cold Spring Harbor Laboratory, NY, 1994), pages S51-S64
	A96	Winn-Deen et al. Non-radioactive detection of <i>Mycobacterium Tuberculosis</i> LCR products in a microtitre plate format. <i>Mol. Cell. Probes (England)</i> 7(3):179-186 (1993)
	A97	Young et al. Quantitative Analysis of Solution Hybridisation, <i>Nucleic Acid Hybridisation: A Practical Approach</i> (IRL Press, 1985), Pages 47-71
	A98	Yu et al., "Cyanine dye dUTP analogs for enzymatic labeling of DNA probes," <i>Nucl. Acids Res.</i> , 22(15):3226-3232 (1994)



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ATTORNEY DOCKET NO. 13172.0007U1
SERIAL NO. 09/910,383
JAN 27 2002
CONFIRMATION NO. 2312
Page 5 of 5
TECH CENTER 1600/2900

	A99	Zhu et al. Purification and characterization of PRD1 DNA polymerase. <i>Biochim. Biophys. Acta</i> 1219:267-276 (1994)
	A100	Zijderveld et al. Helix-Destabilizing Properties of the Adenovirus DNA-Binding Protein. <i>J. Virol.</i> 68(2):1158-1164 (1994)
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